

## SLB 400: Application fields and features



### Application

The series SLB 400 is suitable for applications to Control Category 4 (EN 954-1) and for sensing ranges up to 15 m. Typical application fields are e.g. the safe guarding of:

- perimeter guarding
- operating range of industrial robots
- palletisers
- rack equipment and devices
- stacking systems
- winding and unwinding machines
- printing and paper processing machines
- machines of the chemical, rubber and plastic industry

The complete safety light barrier system consists of:

- the safety monitoring module SLB 400-C10-1R
- up to four through-beam safety light barrier pairs type SLB 400-E/R50-21P

The safety monitoring module in combination with the safety light barriers are designed as a self monitoring device according to IEC 61496, type 4.

### Features

- Connection of up to four safety light barrier pairs
- very small design
- can be coded (up to four systems do not interfere with each other)
- start-up test
- different operation modes selectable: with or without start/restart interlock with or without contactor monitoring
- integrated pollution monitoring
- switching condition and fault indication
- signalling outputs for external displays
- meets the requirements of the highest category (self-monitoring, ESPE-S)
- EC-test type certificate according to the latest standards and directives (IEC 61496)



## Technical data and ordering details



Technical data SLB 400-E/R50-21 Safety Light Beams	
Type	SLB 400-E50-21P (emitter) SLB 400-R50-21P (receiver)
Operation range	0.7 m ... 15 m (adjustable range)
Light type	infrared, 880 nm
Housing dimensions	50 mm x 50 mm x 17 mm
Connection	Plug-in connector M12, 4 pole
Operating voltage	10 ... 30 V DC, max. residual ripple 10 %
Switching output	PNP (NO contact)
Ambient temperature	0 ... + 60 °C
System of protection	IP 67
Weight	approx. 60 g/pair

Technical data SLB 400-C10-1R Safety Controller	
Type	SLB 400-C10-1R
Control Category	4 per EN 954-1
Number of connectable light barriers	max. 4 pairs
Response time	≤ 25 ms
Operation mode(s)	with or without start/restart interlock with or without contactor monitoring/ feedback circuit (NC contact)
Housing dimensions	99.7 mm x 75 mm x 110 mm (W x H x D)
Operating voltage	24 V DC ± 15 %
Weight	approx. 420 g
Switching current/voltage	2 A / 250 V AC; 2 A / 250 V DC
Ambient temperature	0 °C ... + 55 °C
System of protection	IP 20 for mounting in switchgear cabinets

### Ordering details

Ident-No.	Type
	<b>Safety monitoring module, 24 V DC</b>
1666600400	SLB 400-C10-1R
	<b>Through-beam safety light barrier</b>
1666600380	SLB 400-E50-21P (emitter)
1666600381	SLB 400-R50-21P (receiver)
	<b>Accessories</b>
5113325001	KD M12-4-2m, connector socket, M12 x 1 4-poles, straight, cable length 2 m
5113325002	KD M12-4-5m, connector socket, M12 x 1 4-poles, straight, cable length 5 m
5113325003	KD M12-4, connector socket, M12 x 1, 4-poles, straight, unwired
5113325004	BF 50, mounting angle (adjustable) incl. mounting accessory